

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Original) A thin, flexible film of a transparent polymeric material, comprising a structured surface on one side and a smooth surface opposite said structured surface on the other side, wherein said structured surface on the other side, wherein said structured surface includes a linear array of miniature isosceles prisms having substantially perpendicular sides arranged side-by-side to form a plurality of peaks and grooves, the perpendicular sides of said prisms make an angle of approximately 45° with said smooth surface opposite said structured surface, said film being capable of being curled such that said smooth surface lies in a smooth continuous arcuate curve having a diameter of less than 3 inches.

2. (Original) The film defined in claim 1, wherein said isosceles prisms are micro in size, at least 40 per inch.

3. (Original) The film defined in claim 1, wherein the film does not have sufficient strength to be self-supporting.

4. (Original) The film defined in claim 1, wherein said transparent polymeric material is polycarbonate.

5. (Original) The film defined in claim 1, wherein said transparent polymeric material is acrylic.

6. (Original) The film defined in claim 1, wherein incident light striking the smooth surface within certain angular ranges is totally internally reflected.

7. (Original) The film defined in claim 1, wherein incident light striking the structured surface within certain angular ranges is totally internally reflected.

8. (Original) The film defined in claim 1, wherein said film has a thickness of approximately 0.015 of an inch and about 70 prisms per inch so that when said film is curled said smooth surface lies in a smooth continuous arcuate curve without any discernible discontinuities.

9. (Original) A light conduit for transporting light, comprising a thin, flexible film of a transparent polymeric material including a structured surface on one side and a smooth surface opposite said structured surface on the other side, said structured surface having a linear array of miniature isosceles prisms having substantially perpendicular sides arranged side-by-side to form a plurality of peaks and grooves, the perpendicular sides of said prisms make an angle of approximately 45° with said smooth surface opposite said structured surface, and said film is formed into a tubular configuration so that said smooth surface lies in a smooth continuous arcuate curve, whereby light entering the conduit, within certain angular ranges, is totally internally reflected as it travels along the conduit.

10. (Original) The light conduit defined in claim 9, wherein the corners of said prisms of said structured surface are not optically sharp, so that the light conduit acts as an illuminator by allowing some of the light entering said conduit to escape through the film without being totally internally reflected.

11. (Original) The light conduit defined in claim 9, wherein the perpendicular sides of said prisms of said structured surface are not optically smooth, so that the light conduit acts as an illuminator by allowing some of the light entering said conduit to escape through the film without being totally internally reflected.

12. (Original) The light conduit defined in claim 9, wherein said peaks are rounded to permit controlled light leakage defined in accordance with the ratio r/p , where r is the approximate radius of the round peaks and p is the groove period.

13. (Original) A thin, flexible film of a transparent polymeric material, comprising a structured surface on one side and a smooth surface opposite said structured surface on the other side, said structured surface includes a linear array of miniature isosceles prisms having substantially perpendicular sides arranged side-by-side to form a plurality of peaks and grooves, the perpendicular sides of said prisms make an angle of approximately 45° with said smooth

surface opposite said structured surface, said film being capable of being curled such that said smooth surface lies in a smooth continuous arcuate curve having a diameter of less than 18 inches wherein said peaks are rounded to permit controlled light leakage in accordance with the ratio r/ρ where r is the approximate radius of the round peaks and ρ is the groove period.

14. (Original) The film of claim 1 wherein said transparent polymeric material is polyurethane.

15. (Original) The film of claim 1 wherein said transparent polymeric material has a high refractive index.

16. (Original) The film of claim 1 wherein said transparent polymeric material has a refractive index greater than or equal to 1.493.

17. (Original) The film of claim 1 wherein said transparent polymeric material has a refractive index greater than or equal to 1.586.

18. (Original) The film of claim 1, 4, 5, or 14 wherein said transparent polymeric material is isotropic.

19. (Original) The film of claim 1, 4, 5, or 14 wherein said transparent polymeric material is homogeneous.

20. (Original) The film of claim 1 wherein the film diffuses light.

21. (Original) The film of claim 1 wherein the film comprises an optical modification to permit controlled light leakage.

22. (Original) The film of claim 21 wherein the optical modification comprises diffusing particles.

23. (Original) The film of claim 21 wherein the optical modification comprises a window.

24. (Original) The film of claim 21 wherein the optical modification comprises said prisms having non-optically sharp corners.

25. (Original) The film of claim 21 wherein the optical modification comprises said prisms having non-optically smooth perpendicular sides.

26. (Currently amended) The film of claim 21 wherein the optical modification comprises rounding said peaks of the structured surface, said rounding defined in accordance with the ratio $r/[\rho]$, where r is the approximate radius of the round peaks and $[\rho]$ is the groove period.

27. (Original) The film of claim 1 wherein the film comprises a composite structure in which the prisms are bonded to a separate sheet material.

28. (Original) The film of claim 1 wherein the film has about 70 prisms per inch so that when said film is curled said smooth surface lies in a smooth continuous arcuate curve without any discernible discontinuities.

29. (Original) The film of claim 1 wherein the film is self-supporting.

30. (Original) The film of claim 1 in combination with a light source arranged to direct incident light upon one of the structured or smooth surfaces of the film such that the light

within certain angular ranges is totally internally reflected upon striking the other of the structured or smooth surfaces.

31. (Original) The light conduit of claim 9 wherein said transparent polymeric material is polyurethane.

32. (Original) The light conduit of claim 9 wherein said transparent polymeric material is acrylic.

33. (Original) The light conduit of claim 9 wherein said transparent polymeric material is polycarbonate.

34. (Original) The light conduit of claim 9 wherein said transparent polymeric material has a high refractive index.

35. (Original) The light conduit of claim 9 wherein said transparent polymeric material has a refractive index greater than or equal to 1.493.

36. (Original) The light conduit of claim 9 wherein said transparent polymeric material has a refractive index greater than or equal to 1.586.

37. (Original) The light conduit of claim 9, 31, 32, or 33 wherein said transparent polymeric material is isotropic.

38. (Original) The light conduit of claim 9, 31, 32, or 33 wherein said transparent polymeric material is homogeneous.

39. (Original) The light conduit of claim 9 wherein the conduit diffuses light.

40. (Original) The light conduit of claim 9 wherein the light conduit comprises an optical modification to permit controlled light leakage.

41. (Original) The light conduit of claim 40 wherein the optical modification comprises diffusing particles.

42. (Original) The light conduit of claim 40 wherein the optical modification comprises a window.

43. (Original) The light conduit of claim 40 wherein the film comprises a composite structure in which the prisms are bonded to a separate sheet material.

44. (Original) The light conduit of claim 9 wherein the film has at least 40 prisms per inch so that when said film is curled said smooth surface lies in a smooth continuous arcuate curve without any discernible discontinuities.

45. (Original) The light conduit of claim 9 wherein the film has about 70 prisms per inch so that when said film is curled said smooth surface lies in a smooth continuous arcuate curve without any discernible discontinuities.

46. (Original) The light conduit of claim 9 wherein the film is self-supporting.

47. (Original) The film of claim 13 wherein said transparent polymeric material is polyurethane.

48. (Original) The film of claim 13 wherein said transparent polymeric material is acrylic.

49. (Original) The film of claim 13 wherein said transparent polymeric material is polycarbonate.

50. (Original) The film of claim 13 wherein said transparent polymeric material has a high refractive index.

51. (Original) The film of claim 13 wherein said transparent polymeric material has a refractive index greater than or equal to 1.493.

52. (Original) The film of claim 13 wherein said transparent polymeric material has a refractive index greater than or equal to 1.586.

53. (Original) The film of claim 13, 47, 48, or 49 wherein said transparent polymeric material is isotropic.

54. (Original) The film of claim 13, 47, 48, or 49 wherein said transparent polymeric material is homogeneous.

55. (Original) The film of claim 13 wherein the film comprises a composite structure in which the prisms are bonded to a separate sheet material.

56. (Original) The film of claim 13 wherein the film has at least 40 prisms per inch so that when said film is curled said smooth surface lies in a smooth continuous arcuate curve without any discernible discontinuities.

57. (Original) The film of claim 13 wherein the film has about 70 prisms per inch so that when said film is curled said smooth surface lies in a smooth continuous arcuate curve without any discernible discontinuities.

58. (Original) The film of claim 13 wherein the film is self-supporting.